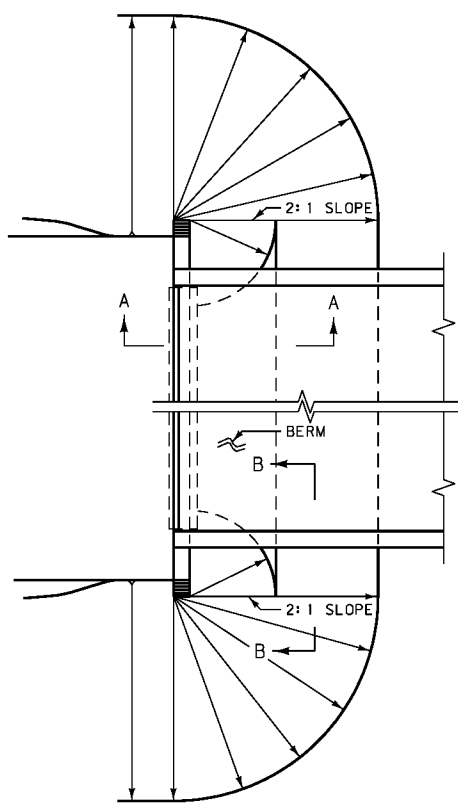
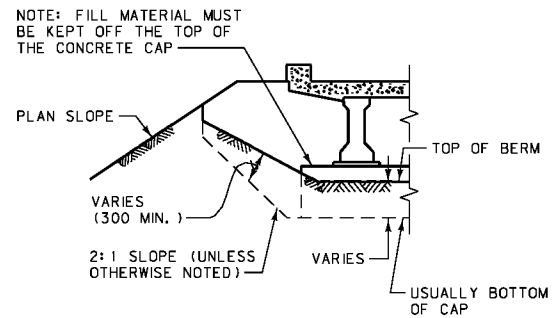


SECTION A-A



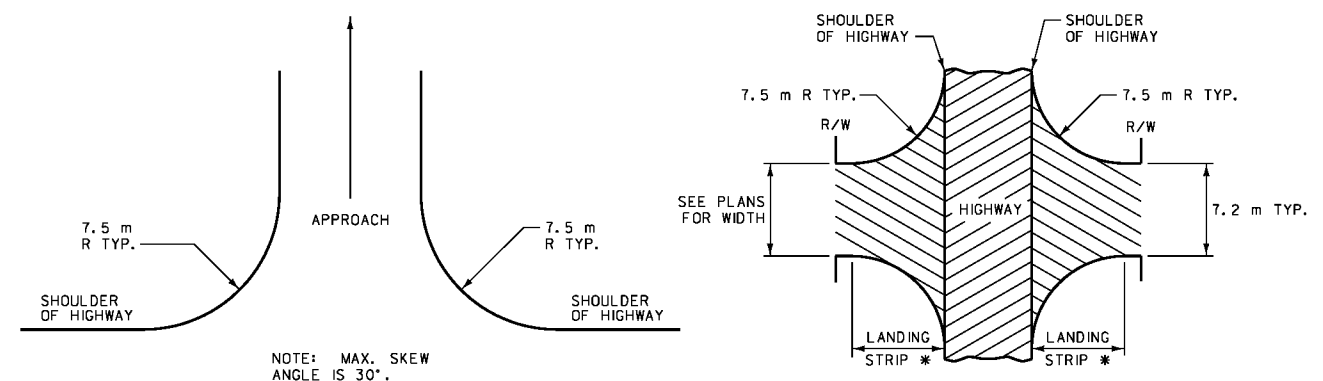
PLAN VIEW



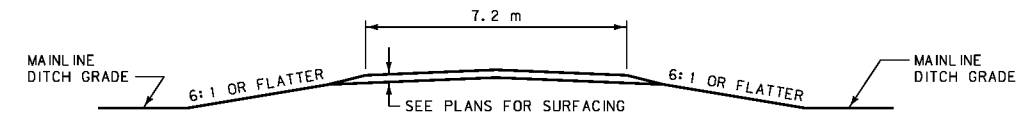
SECTION B-B

ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

DETAILED DRAWING	
REFERENCE	DWG. NO.
STANDARD SPEC.	203-00
SECTION 203	
ROADWAY EMBANKMENT AT BRIDGE END	
EFFECTIVE: AUGUST 1999	
MONTANA DEPARTMENT OF TRANSPORTATION MONTANA CADD	

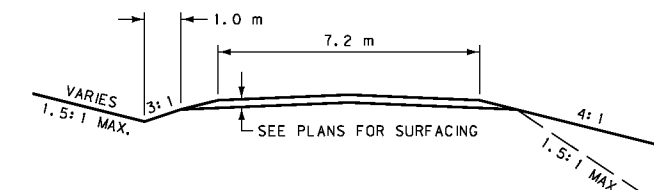


* 7.5 m MIN. FOR PRIVATE OR FIELD APP.
25.0 m MIN FOR COUNTY AND MAIN ROADS.
SLOPE FOR DRAINAGE (-3% DESIRABLE, +3% ALLOWABLE).



TYPICAL SECTION WITHIN CLEAR ZONE

USE A PIPE AS NECESSARY FOR DRAINAGE. INSTALL CULVERTS OUTSIDE THE CLEAR ZONE OR PROVIDE END TREATMENT.



TYPICAL SECTION BEYOND CLEAR ZONE

BACK SLOPES **	
0 - 1.5 m	4:1
1.5 m - 3.0 m	2:1
OVER 3.0 m	1.5:1

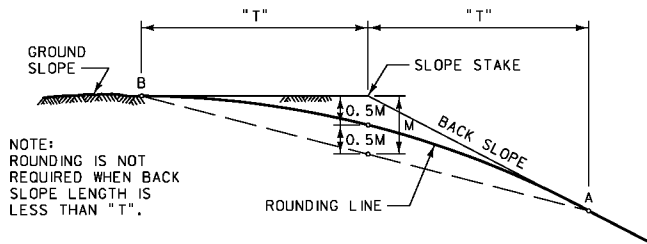
FILL SLOPES **	
0 - 3.0 m	4:1
3.0 m - 6.0 m	2:1
OVER 6.0 m	1.5:1

NOTES:

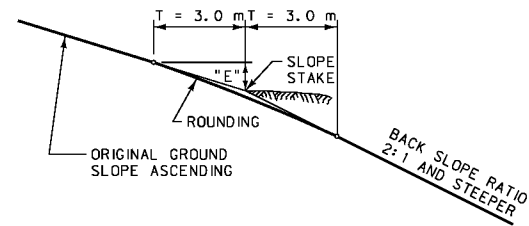
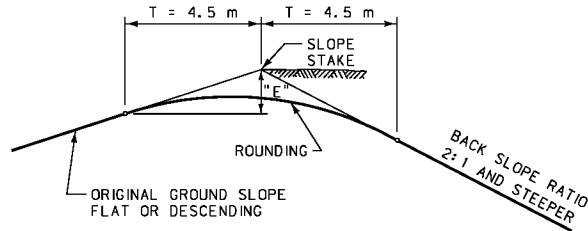
- APPROACH GRADE BEYOND LANDING IS NOT TO EXCEED 10% UNLESS TRAFFIC VOLUMES AND COST INDICATE SUCH TO BE JUSTIFIABLE.
- CONSTRUCT APPROACHES TO FIT LOCAL CONDITIONS, MINIMIZE TRAFFIC HAZARDS, AND AFFORD ENTRY AND EXIT OF TRAFFIC TO AND FROM THE MAIN ROAD.
- SECURE WRITTEN PERMISSION FROM LANDOWNER FOR WORK BEYOND THE RIGHT-OF-WAY.
- ** CRITERIA SHOWN ARE FOR PRIVATE AND FARM FIELD APPROACHES. FOR COUNTY AND MAIN ROADS USE ESTABLISHED STANDARDS FOR APPLICABLE FUNCTIONAL CLASS.

DETAILED DRAWING	
REFERENCE	DWG. NO.
STANDARD SPEC.	203-05
SECTION 203	
APPROACHES	
EFFECTIVE: AUGUST 1999	
MONTANA DEPARTMENT OF TRANSPORTATION MONTANA CADD	

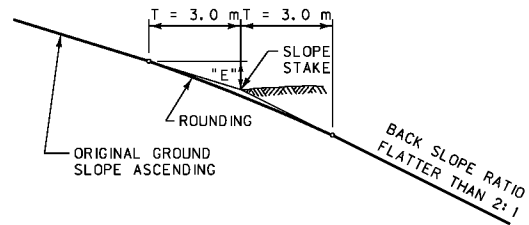
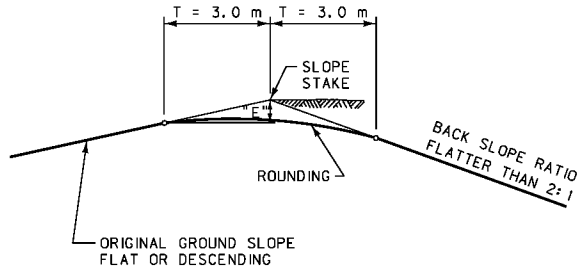
VERTICAL OFFSETS FROM ROADWAY AND GROUND SLOPES
TO ROUNDING LINES FOR CUTS



BACK SLOPES 2:1 AND STEEPER



BACK SLOPES FLATTER THAN 2:1



VERT. DIST. "E" (m)	BACK SLOPES 2:1 AND STEEPER (T = 4.5 m)					
	DESCENDING GROUND CUTS					
	0.5M (m)					
	0.75:1	1:1	1.25:1	1.5:1	1.75:1	2:1
FLAT	1.50	1.15	0.90	0.75	0.65	0.55
0.6	1.65	1.30	1.05	0.90	0.80	0.70
1.2	1.80	1.45	1.20	1.05	0.95	0.85
1.8	1.95	1.60	1.35	1.20	1.10	1.00
2.4	2.10	1.75	1.50	1.35	1.25	1.15
3.0	2.25	1.90	1.65	1.50	1.40	1.30
3.6	2.40	2.05	1.80	1.65	1.55	1.45
4.2	2.55	2.20	1.95	1.80	1.70	1.60
4.8	2.70	2.35	2.10	1.95	1.85	1.75

VERT. DIST. "E" (m)	BACK SLOPES 2:1 AND STEEPER (T = 3.0 m)					
	ASCENDING GROUND CUTS					
	0.5M (m)					
	0.75:1	1:1	1.25:1	1.5:1	1.75:1	2:1
FLAT	1.00	0.75	0.60	0.50	0.45	0.40
0.6	0.85	0.60	0.45	0.35	0.30	0.25
1.2	0.70	0.45	0.30	0.20	0.15	0.10
1.8	0.55	0.30	0.15	0.05	0.00	0.00
2.4	0.40	0.15	0.00	0.00	-	-
3.0	0.25	0.00	-	-	-	-
3.6	0.10	-	-	-	-	-
4.2	0.00	-	-	-	-	-

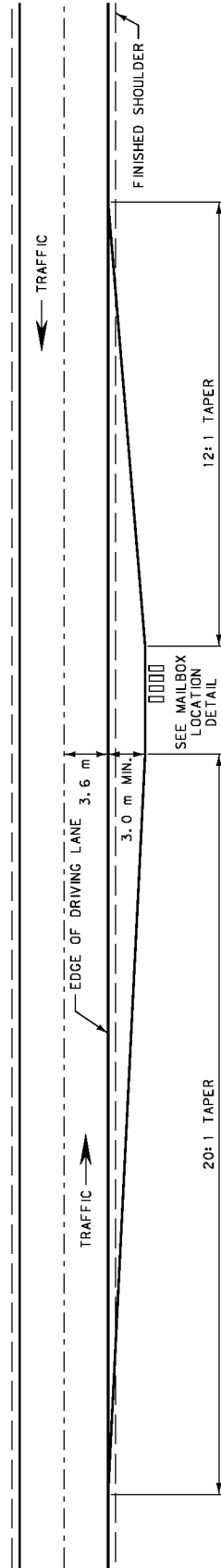
VERT. DIST. "E" (m)	BACK SLOPES FLATTER THAN 2:1 (T = 3.0 m)						
	DESCENDING GROUND CUTS						
	0.5M (m)						
	2.5:1	3:1	3.5:1	4:1	5:1	6:1	
FLAT	0.30	0.25	0.20	0.20	0.15	0.15	
0.3	0.40	0.35	0.30	0.25	0.25	0.20	
0.6	0.45	0.40	0.35	0.35	0.30	0.30	
0.9	0.55	0.50	0.45	0.40	0.40	0.35	
1.2	0.60	0.55	0.50	0.50	0.45	0.45	
1.5	0.70	0.65	0.60	0.55	0.55	0.50	
1.8	0.75	0.70	0.65	0.65	0.60	0.60	
2.1	0.85	0.80	0.75	0.70	0.70	0.65	
2.4	0.90	0.85	0.80	0.80	0.75	0.75	
2.7	1.00	0.95	0.90	0.85	0.85	0.80	
3.0	1.05	1.00	0.95	0.95	0.90	0.90	

VERT. DIST. "E" (m)	BACK SLOPES FLATTER THAN 2:1 (T = 3.0 m)						
	ASCENDING GROUND CUTS						
	0.5M (m)						
	2.5:1	3:1	3.5:1	4:1	5:1	6:1	
FLAT	0.30	0.25	0.20	0.20	0.15	0.15	
0.3	0.25	0.20	0.15	0.10	0.10	0.05	
0.6	0.15	0.10	0.05	0.05	0.00	0.00	
0.9	0.10	0.05	0.00	0.00	-	-	
1.2	0.00	0.00	-	-	-	-	
1.5	-	-	-	-	-	-	
1.8	-	-	-	-	-	-	
2.1	-	-	-	-	-	-	
2.4	-	-	-	-	-	-	
2.7	-	-	-	-	-	-	
3.0	-	-	-	-	-	-	

DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC. 203-10
SECTION 203

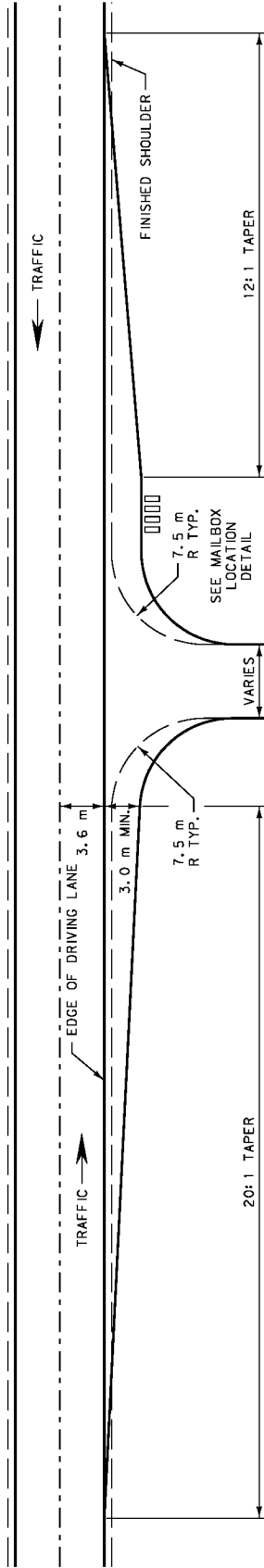
SLOPE ROUNDING

EFFECTIVE: AUGUST 1999

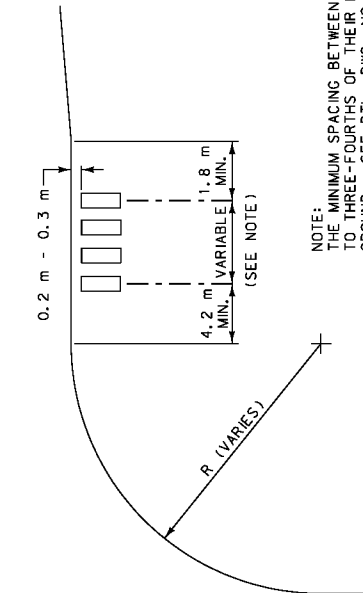


TURNOUT WITHOUT APPROACH

NOTE: ACTUAL SIZE AND LOCATION TO BE DETERMINED BY THE ENGINEER.



TURNOUT WITH APPROACH



NOTE: THE MINIMUM SPACING BETWEEN MAILBOXES IS EQUAL TO THREE-FOURTHS OF THEIR HEIGHT ABOVE THE GROUND. SEE DETL. DWG. NO. 900-05 AND 900-10 FOR MAILBOX DETAILS.

DETAILED DRAWING
REFERENCE DWG. NO.
STANDARD SPEC. 203-15
SECTION 203
MAILBOX TURNOUT
EFFECTIVE: AUGUST 1999
MONTANA DEPARTMENT OF TRANSPORTATION
CADD